

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112519\
 Data File : VL034419.D
 Acq On : 25 Nov 2019 23:35
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

apatel
 12/2/2019 10:04:37 AM

Quant Time: Nov 26 04:35:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 1
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	898642	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1790228	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1916456	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1557080	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1845479	11.352	ppbv	100
3) Chlorodifluoromethane	2.96	51	1104928	9.855	ppbv	100
4) Chloromethane	3.11	50	663972	10.040	ppbv	98
5) Vinyl Chloride	3.23	62	601750	9.711	ppbv	93
6) Bromomethane	3.45	94	324652	10.413	ppbv	87
7) Chloroethane	3.54	64	226703	10.080	ppbv	99
8) Dichlorotetrafluoroethane	3.16	85	1406502	9.634	ppbv	99
9) Propene	2.98	41	475230	9.547	ppbv	98
10) Heptane	8.16	43	1311347	10.208	ppbv	100
11) Trichlorofluoromethane	3.94	101	1589858	9.826	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1061147	9.876	ppbv	99
13) Ethanol	3.59	45	98714	7.119	ppbv	99
14) Bromoethene	3.72	108	439559	10.061	ppbv	99
15) Acetone	3.84	43	1287156	10.003	ppbv	98
16) 1,3-Butadiene	3.30	39	564691	10.074	ppbv	100
17) tert-Butyl alcohol	4.29	59	926950	8.570	ppbv	100
18) 1,1-Dichloroethene	4.28	96	479544	10.203	ppbv	96
19) Isopropyl Alcohol	3.95	45	737884	8.946	ppbv #	99
20) Methylene Chloride	4.34	84	406661	8.912	ppbv	90
21) Allyl Chloride	4.41	41	803321	10.418	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	485690	10.251	ppbv	96
23) Vinyl Acetate	5.08	43	1822772	10.843	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1277427	9.893	ppbv	100
25) Ethyl Acetate	5.69	43	2271310	9.891	ppbv	99
26) Hexane	5.70	57	962296	9.753	ppbv	98
27) Carbon Disulfide	4.55	76	1207525	11.236	ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	1603041	9.798	ppbv	99
29) Chloroform	5.77	83	1569750	9.824	ppbv	95
30) Cyclohexane	7.15	84	769927	10.322	ppbv	98
31) cis-1,2-Dichloroethene	5.56	61	1048438	10.282	ppbv	96
32) 1,1,1-Trichloroethane	6.53	97	1568401	10.469	ppbv	99
34) 2-Butanone	5.25	43	1520729	10.320	ppbv	97
35) Carbon Tetrachloride	7.04	117	1662865	10.803	ppbv	98
36) Benzene	6.92	78	1833114	10.243	ppbv	97
37) 1,2-Dichloroethane	6.33	62	1362957	10.252	ppbv	100
38) Trichloroethene	7.87	130	731521	9.961	ppbv	98
39) 1,2-Dichloropropane	7.65	63	769041	11.154	ppbv	95
40) 1,4-Dioxane	7.86	88	272591m	9.051	ppbv	
41) Tetrahydrofuran	6.06	42	857259	10.372	ppbv	98
42) Bromodichloromethane	7.83	83	1730073	10.405	ppbv	99
43) Methyl Methacrylate	8.05	69	791395	10.662	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	3302346	10.097	ppbv	100
45) t-1,3-Dichloropropene	9.32	75	1087862	11.428	ppbv	97
46) cis-1,3-Dichloropropene	8.74	75	1197277	11.198	ppbv	97
47) 1,1,2-Trichloroethane	9.52	97	771602	10.061	ppbv	97
48) Dibromochloromethane	10.35	129	1408233	10.694	ppbv	100
49) Bromoform	13.10	173	1243429	10.578	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	2245710	10.533	ppbv	100
51) 2-Hexanone	10.17	43	1898000	10.628	ppbv	98
52) Tetrachloroethene	11.28	164	694460	8.969	ppbv	95
53) Toluene	9.85	91	2132101	10.489	ppbv	100
54) 1,2-Dibromoethane	10.66	107	1170485	9.955	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.18	131	926183	9.880	ppbv	94
57) Chlorobenzene	12.20	112	1605348	9.267	ppbv	99
58) Ethyl Benzene	12.76	91	2909736	9.784	ppbv	100
59) m/p-Xylene	13.05	91	4834630m	18.806	ppbv	
60) o-Xylene	13.75	91	2404805	9.461	ppbv	99
61) Styrene	13.58	104	1767131	9.641	ppbv	99
62) Isopropylbenzene	14.73	105	3130257	9.311	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.74	83	1641913	8.593	ppbv	99
64) n-propylbenzene	15.62	120	816018	9.347	ppbv	98
65) tert-Butylbenzene	16.81	119	2753245	9.118	ppbv	100
66) Benzyl Chloride	17.06	91	1264816	10.888	ppbv	99
67) sec-Butylbenzene	17.36	105	3817253	9.037	ppbv	100
69) p-Isopropyltoluene	17.72	119	3208295	9.152	ppbv	99
70) n-Butylbenzene	18.62	91	3461006	9.175	ppbv	99
71) 2-Chlorotoluene	15.52	91	2451032	9.144	ppbv	99
72) 4-Ethyltoluene	15.90	105	2735447	9.314	ppbv	100
73) 1,3,5-Trimethylbenzene	16.06	105	2622528	9.122	ppbv	97
74) 1,2,4-Trimethylbenzene	16.83	105	2710992	8.877	ppbv	92
75) 1,3-Dichlorobenzene	17.07	146	1539997	8.773	ppbv	99
76) 1,4-Dichlorobenzene	17.21	146	1539521	9.032	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	1505050	8.877	ppbv	98
78) Hexachloro-1,3-Butadiene	23.45	225	1574283	10.807	ppbv	99
79) Naphthalene	22.29	128	2929131	11.064	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	1450624	12.135	ppbv	99
81) 1,2,4-Trichlorobenzene	22.01	180	1705761	10.488	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

